

2013-3

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(d))

Docket No.
04150012AA

In Re Application Of:

Hayashi et al.

FEB 18 2005
U.S. PATENT AND TRADEMARK OFFICE

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
09-853,622	5-14-01	Renner, Craig A	30743	2652	7276

Title: METHOD OR SMOOTHING A BARRIER LAYER IN A MAGNETORESISTIVE EFFECT SENSOR BY SMOOTHING A LAYER UPON WHICH THE BARRIER LAYER IS FORMED, AND SENSOR HAVING A BARRIER LAYER FORMED UPON A SMOOTHED LAYER

Address to:
Commissioner for Patents

The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(c), and on or before payment of the issue fee, and is accompanied by the Statement as specified in 37 CFR 1.97(e) and the fee set forth in 37 CFR 1.17(p).

A check in the amount of \$180.00 is attached.

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Signature

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Dated: 2-18-05

CC:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Hayashi et al.

Serial No. 09/853,622

Group Art Unit: 2652

Filed: 5-14-01

Examiner: Renner, Craig A

**For: METHOD OR SMOOTHING A BARRIER LAYER IN A
MAGNETORESISTIVE EFFECT SENSOR BY SMOOTHING A LAYER UPON
WHICH THE BARRIER LAYER IS FORMED, AND SENSOR HAVING A
BARRIER LAYER FORMED UPON A SMOOTHED LAYER**

Commissioner for Patents
P.O. Box 1450
Alexandria, Va. 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

A Notice of Allowance was issued on January 25, 2005. The issue fee has not yet been paid. Under the provisions of 37 C.F.R. 1.97 through 1.98 and pursuant to applicant's duty of disclosure under 37 C.F.R. 1.56, applicant respectfully brings the following documents, cited in a Japanese Office Action and listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Copies of the listed documents are provided herewith for the convenience of the Examiner.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to filing of this statement.

It is respectfully requested that the listed references be formally made of record in the application. A fee in the amount of \$180.00 is needed to satisfy the fee for entry consideration of the Information Disclosure Statement. Please charge any deficiencies in fees and credit any overpayment of fees to Attorney's Deposit Account No. 50-2041.

Respectfully submitted,



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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

04150012AA

Application Number

09.853.622

Applicant(s)

Hayashi et al.

Filing Date

5-14-01

Group Art Unit

2652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

Japanese Office Action dated January 25, 2005 with English translation of pertinent portions

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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.